IADIS International Conference Applied Computing 2013
Fort Worth, Texas, USA
CONFERENCE PROGRAM

Tuesday 22\textsuperscript{nd}, October 2013

18:30 Welcome Reception (at Hotel Restaurant - Sheraton Bistro)

Wednesday 23\textsuperscript{rd}, October 2013

08:30-17:30 Welcome Desk

09:15-09:30 Session O – Opening Session
(Room Grape Creek)

\textbf{OPENING SESSION}
Profs Pedro Isaías and Hans Weghorn

09:30-10:30 Session KL1 – Keynote Presentation
(Room Grape Creek)

\textbf{SENTIC COMPUTING}
Dr. Erik Cambria, Research Scientist at the National University of Singapore and Associate Researcher at the MIT - Massachusetts Institute of Technology

10:30-11:00 Coffee Break (at Lightcatcher Foyer Room)

11:00-12:30 Session FP 23.1
Applied Information Systems // Information Retrieval
(Room Grape Creek)

\textbf{Chair: Jeffrey Greene}

\textbf{IMPROVING THE BURROWS METHOD OF SOURCE CODE AUTHORSHIP ATTRIBUTION (F069)}
Matthew F. Tennison and Francisco J. Mitropoulos (presented by Steven Dolis)

\textbf{HIDDEN MARKOV MODELS: APPLICATIONS IN FLEET MANAGEMENT (F092)}
Richard L. Churchill, K.M. George and Nohpill Park

\textbf{CONTEXT-AWARE RECOMMENDATION BASED ON MULTI-CRITERIA COMMUNITIES (F094)}
Thuy Ngoc Nguyen and An Te Nguyen

12:30-13:30 Lunch Break (at Brushy Creek & Dry Coma Room)

13:30-15:30 Session FP 23.2
Algorithms // Parallel and Distributed Systems
(Room Grape Creek)

\textbf{Chair: Hideoki Goto}

\textbf{ONLINE BICRITERIA LOAD BALANCING WITH REPLICATION IN AMORTIZED LOGARITHMIC TIME (F087)}
Savio S. H. Tse

\textbf{SEQUENTIAL & PARALLEL HYBRID APPROACH FOR NON-RECURSIVE MOST SIGNIFICANT DIGIT RADIX SORT (F070)}
Ahmet Arif Aydin and Gita Alaghband

\textbf{AN ENERGY-EFFICIENT HEURISTIC FOR HARD REAL-TIME SYSTEM ON MULTI-CORE Processors (F067)}
Da He and Wolfgang Mueller

\textbf{SERIAL VS. PARALLEL ELLIPTIC CURVE CRYPTO PROCESSOR DESIGNS (F033)}
Adnan Abdul-Aziz Gatuh, Abdul-Aziz Tabakh, Ayed Al-Qahtani and Aalaeeldin Amin

15:30-16:00 Coffee Break (at Lightcatcher Foyer Room)

16:00-17:30 Session FRP 23.3
Ubiquitous Computing // Usability Issues // Other
(Room Grape Creek)

\textbf{Chair: Yas Alsultanny}

\textbf{GENERATING CUSTOMIZED, INTELLIGENT, AND DYNAMIC NARRATIVES (F077)}
Jon A Preston, Jeff Chastine and Jeff Greene

\textbf{MARKUP LANGUAGE FOR COGNITIVE AND CONTEXT-AWARE ADAPTABLE USER INTERFACES (F092)}
Sohail Rafiqi, Saku Nair and Ephrem Fernandez

\textbf{A SEMANTIC APPROACH TO MANAGING AGILE REQUIREMENTS IN THE CLINICAL WORKSPACE (R080)}
Pavani Akanali

\textbf{LOGÉEN ELOGISTIC & GREEN (P046)}
Emanuela Donetti, Gabriele Grea, Moreno Carosella, Domenico Furno, Micaela Terzi and Elena Roda

19:00 Conference Dinner (at Brushy Creek & Dry Coma Room)
**Thursday 24th, October 2013**

08:30-18:00 Welcome Desk

09:00-10:30 Tutorial  
(Room Spicewood)  
**SENTIC COMPUTING**  
Dr. Erik Cambria, Research Scientist at the National University of Singapore and Associate Researcher at the MIT - Massachusetts Institute of Technology

10:30-11:00 Coffee Break (at Lightcatcher Foyer Room)

11:00-12:30 Tutorial  
(Room Spicewood)  
Dr. Erik Cambria, Research Scientist at the National University of Singapore and Associate Researcher at the MIT - Massachusetts Institute of Technology

12:30-13:30 Lunch Break (at Brushy Creek & Dry Coma Room)

13:30-15:15 Session FRP 24.1  
**Security // Database Systems**  
(Room Grape Creek)  
Chair: Alla Kravets  
**SOFTWARE WATERMARKING BASED ON REGISTER ALLOCATION WITH ROTATION (F096)**  
Takami Sekino, Yuki Hirai and Keiichi Kaneko  
**A DESIGN PATTERN OF INCORPORATING ATTRIBUTES INTO ROLE-BASED ACCESS CONTROL (F076)**  
Ying Jin, Jose Reyes and Zhimin Cheng  
**A GENERAL METHOD FOR ANALYZING THE NATIONWIDE INPATIENT SAMPLE DATA SET (F020)**  
Hua-Ching Su, Sneha Dhanya and Steven Dolins  
**PRIVACY OF SMARTPHONE APPLICATIONS (R023)**  
Ali Esthamoosi and Suki Nair

15:30-16:00 Coffee Break (at Lightcatcher Foyer Room)

16:00-17:50 Session FSP 24.2  
**Data Mining**  
(Room Grape Creek)  
Chair: Steven Dolins  
**PARTITIONING OF INTERVAL-TYPE DATA SETS USING KERNEL FUZZY C-MEANS CLUSTERING ALGORITHM (F027)**  
Anderson F. B. F. da Costa, Cesar Rocha Vasconcelos, Bruno A. Pimentel, Renata M. C. R. de Souza and Reinaldo Gomes  
**INTENSITY PREDICTION MODEL FOR TROPICAL CYCLONE RAPID INTENSIFICATION EVENTS (S024)**  
Hadil Shaiba and Michael Hublauer  
**MALWARE CLASSIFICATION: AN INCREMENTAL SOURCE CODE-BASED APPROACH (S103)**  
Yen-Hsien Lee, Ke-Qin Qiu and Tsai-Hsin Chu  
**MULTI-AGENT SYSTEMS COMPONENT-BASED GENERATOR: DEVELOPMENT APPROACH (S095)**  
Alia G. Kravets, Andrey D. Kravets, Sergey A. Fomenkov and Valeriy A. Kamaev  
**FAULT TOLERANCE EFFECT ON COMPUTER NETWORKS AVAILABILITY (S036)**  
Yas A. Alsultanany

**Friday 25th October 2013**

08:30-13:00 Welcome Desk

09:10-10:30 Session FSP 25.1  
**Parallel and Distributed Systems // Mobile Networks and Systems // Networking**  
(Room Spicewood)  
Chair: Alla Kravets  
**PARALLEL MULTI-GRID LIKE SOLVER FOR THE PRESSURE POISSON EQUATION IN FLUID FLOW APPLICATIONS (F058)**  
Jérôme Frisch, Ralf-Peter Mundani and Ernst Rank  
**AN OPTIMAL DISTRIBUTION OF VIDEO TRANSCODING TASKS IN HOME NETWORKS (F089)**  
Edwin A. Heredia  
**DISRUPTION-TOLERANT, LARGE-SCALE WIRELESS LAN ROAMING ARCHITECTURE FOR EDUROAM (S083)**  
Hideaki Goto, Hao Liu, Shunichi Kinoshita, Motonori Nakamura and Hideaki Sone

10:30-11:00 Coffee Break (at Piney Wood Cove Room)

11:00-12:15 Session FRP 25.2  
**Software Engineering**  
(Room Spicewood)  
Chair: Keiichi Kaneko  
**LEARNING OF WEB APPLICATION FRAMEWORKS COMPONENTS (F068)**  
Daniel Correa Botero, Carlos Mario Zapata Jaramillo and Fernando Arango Ibarra  
**LEAN SOFTWARE DEVELOPMENT: A CASE STUDY IN A MEDIUM-SIZED COMPANY IN BRAZILIAN STATE OF SANTA CATARINA (F090)**  
Ivan Borsic and Mehran Misaghi  
**SOFTWARE TESTING WITH EMPHASIS ON FINDING SECURITY DEFECTS (R078)**  
Celso Barros, Ferrucio Rosa and Amândio Balcão

12:15 Best Paper Awards Ceremony and Closing Session  
(Room Spicewood)  
Profs Pedro Isaias and Hans Weghorn